Golden Panel

energías renovables

Pellas®X Mini

Pellas®X Mini.35

Pellas®X 44

Pellas®X 70

Pellas®X 100

Pellas®X 150

Pellas®X 260

Pellas®X 350

Golden Panel
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Pellas®X Mini

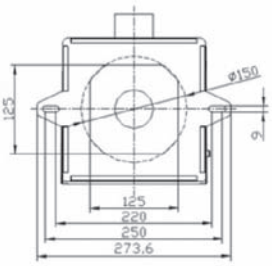
Technical specification

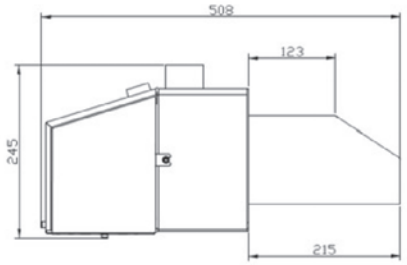
TYPE	Pellas®X Mini
Output [kW]	5 - 26
Power supply	230 V AC / 50Hz
Average power consumption [W]	60
Weight [kg]	11
Feeder length [m]	2
Fuels	pellets 6 - 8 mm
	oats
	dry pits
Combustion efficiency [%]	up to 99
Efficiency in the furnace [%]	up to 96
Output adjustment	YES
Lambda probe	YES (option)
Central heating pump handling	YES
Hot water pump handling	YES
Room temperature sensor	YES (option)
All-weather automatic control	YES (option)
Solar panels handling	YES (option)

Device properties

- ✓ **Patented technology of high-pressure combustion**
- ✓ Patented system of fuel mixing in the furnace chamber - significantly prolongs the duration of maintenance-free operation
- ✓ Made of superior materials based on latest technology
- ✓ Automatic operation: firing, cleaning, flame control
- ✓ Stepless (electronic) power adjustment
- ✓ Low CO and CO_2 emission
- ✓ Low thermal inertia
- ✓ Burner's temperature control
- ✓ Automatic start after voltage loss – memory of last settings
- ✓ High combustion efficiency - up to 99%!
- ✓ The furnace made of superior heat resisting steel
- ✓ Possibility to control the combustion process using a broadband lambda sensor (option)
- ✓ Flame detector precisely detecting its level
- ✓ Removable furnace
- ✓ Low power consumption
- ✓ Fully compatible with the instrumentation of oil and gas boiler and food oven

Dimensions





Fuel


pellets


oats


dry pits

pellasX

Pellas®X Mini.35

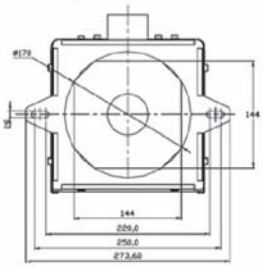
Technical specification

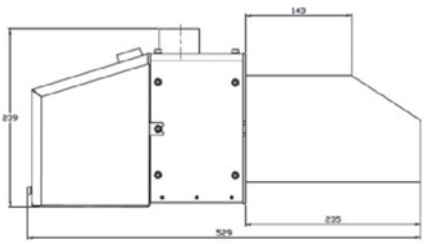
TYPE	Pellas®X Mini.35
Output [kW]	8 - 35
Power supply	230 V AC / 50Hz
Average power consumption [W]	60
Weight [kg]	15
Feeder length [m]	2
Fuels	pellets 6 - 8 mm
	oats
	dry pits
Combustion efficiency [%]	up to 99
Efficiency in the furnace [%]	up to 96
Output adjustment	YES
Lambda probe	YES (option)
Central heating pump handling	YES
Hot water pump handling	YES
Room temperature sensor	YES (option)
All-weather automatic control	YES (option)
Solar panels handling	YES (option)

Device properties

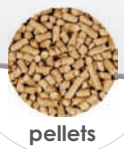
- ✓ Patented technology of high-pressure combustion - no risk of backfire
- ✓ Patented system of fuel mixing in the furnace chamber significantly prolongs the duration of maintenance-free operation
- ✓ Made of the best materials, using latest technologies
- ✓ Automatic operation: firing, cleaning, flame control
- ✓ Removable grate, made of highest quality heat resistant steal
- ✓ Stepless (electronic) power adjustment
- ✓ Low thermal inertia
- ✓ Burner's temperature control
- ✓ Possibility to install a particulate filter!
- ✓ Automatic start after voltage loss – memory of last settings
- ✓ High combustion efficiency - up to 96%!
- ✓ Low CO and CO_2 emission
- ✓ Possibility to control the incineration process using a broadband lambda sensor (option)
- ✓ Flame detector, precisely detecting flame intensity
- ✓ Low power consumption
- ✓ Fully compatible with the instrumentation of oil and gas boiler and bakery oven

Dimensions

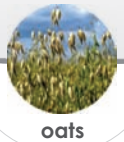




Fuel



pellets



oats

dry pits

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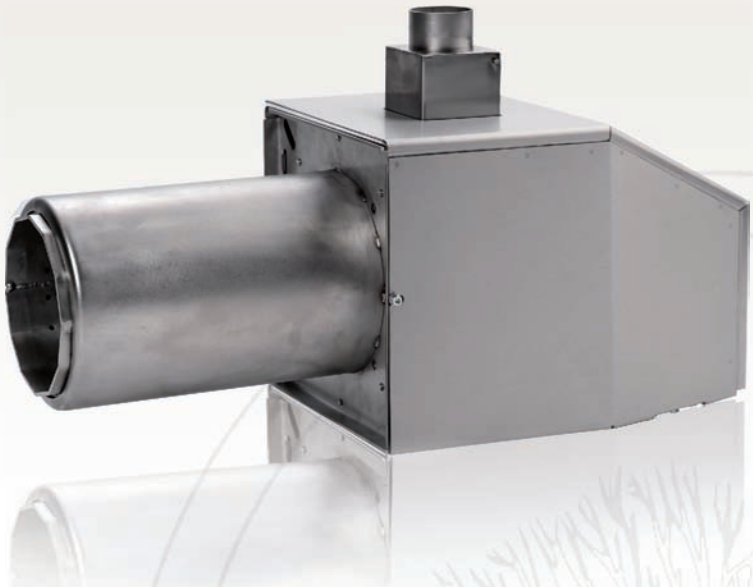
Pellas®X 44



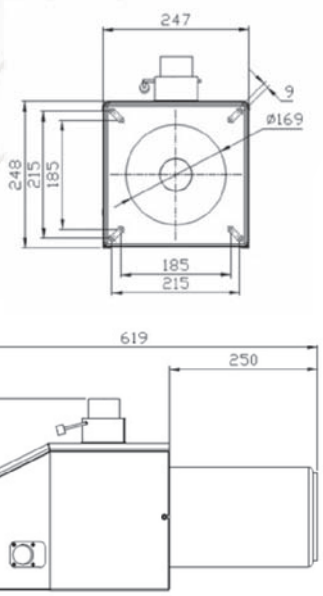
Technical specification

TYPE	Pellas®X 44
Output [kW]	10 - 44
Power supply	230 V AC / 50Hz
Average power consumption [W]	60
Weight [kg]	19
Feeder length [m]	2
Fuels	pellets 6 - 8 mm
	oats
	dry pits
Combustion efficiency [%]	up to 99
Efficiency in the furnace [%]	up to 96
Output adjustment	YES
Lambda probe	YES (option)
Central heating pump handling	YES
Hot water pump handling	YES
Room temperature sensor	YES (option)
All-weather automatic control	YES (option)
Solar panels handling	YES (option)

Device properties

- ✓ Patented technology of high-pressure combustion
- ✓ Patented system of fuel mixing in the furnace chamber - significantly prolongs the duration of maintenance-free operation
- ✓ Made of superior materials based on latest technology
- ✓ Automatic operation: firing, cleaning, flame control
- ✓ Made of over 80% of stainless steel with a housing of acid - resistant steel
- ✓ High-quality connection – ensures reliable communication between the burner and the controller
- ✓ Stepless (electronic) power adjustment
- ✓ Low CO and CO_2 emission
- ✓ Low thermal inertia
- ✓ Burner's temperature control
- ✓ Possibility to install a particulate filter!
- ✓ Automatic start after voltage loss – memory of last settings
- ✓ High combustion efficiency - up to 99%!
- ✓ The furnace made of superior heat resisting steel
- ✓ Possibility to control the combustion process using a broadband lambda sensor (option)
- ✓ Flame detector precisely detecting its level
- ✓ Integrated steel firewall with a counterbalance to prevent backfiring
- ✓ Low power consumption
- ✓ Fully compatible with the instrumentation of oil and gas boiler and food oven

Dimensions



Fuel

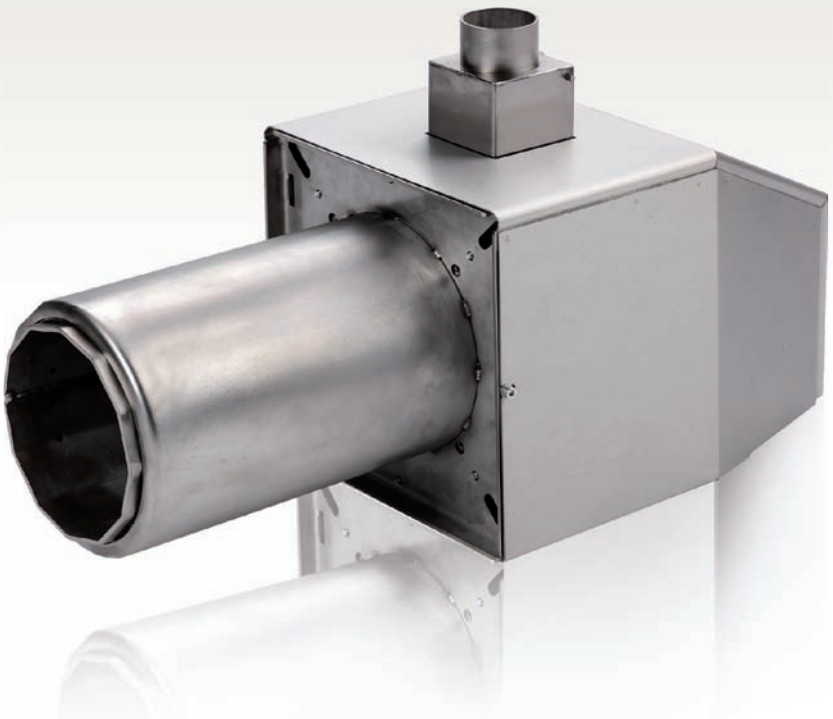

pellets


oats


dry pits

pellasX

Pellas®X 70



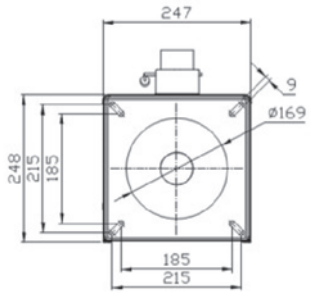
Technical specification

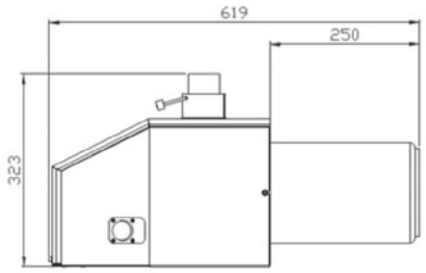
TYPE	Pellas®X 70
Output [kW]	15 - 70
Power supply	230 V AC / 50Hz
Average power consumption [W]	75
Weight [kg]	20
Feeder length [m]	2
Fuels	pellets 6 - 8 mm
	oats
	dry pits
Combustion efficiency [%]	up to 99
Efficiency in the furnace [%]	up to 96
Output adjustment	YES
Lambda probe	YES (option)
Central heating pump handling	YES
Hot water pump handling	YES
Room temperature sensor	YES (option)
All-weather automatic control	YES (option)
Solar panels handling	YES (option)

Device properties

- ✓ Patented technology of high-pressure combustion
- ✓ Patented system of fuel mixing in the furnace chamber – significantly prolongs the duration of maintenance-free operation
- ✓ Made of superior materials based on latest technology
- ✓ Automatic operation: firing, cleaning, flame control
- ✓ Made of over 80% of stainless steel with a housing of acid - resistant steel
- ✓ High-quality connection – ensures reliable communication between the burner and the controller
- ✓ Stepless (electronic) power adjustment
- ✓ Low CO and CO_2 emission
- ✓ Low thermal inertia
- ✓ Burner's temperature control
- ✓ Possibility to install a particulate filter!
- ✓ Automatic start after voltage loss – memory of last settings
- ✓ High combustion efficiency - up to 99%!
- ✓ The furnace made of superior heat resisting steel
- ✓ Possibility to control the combustion process using a broadband lambda sensor (option)
- ✓ Flame detector precisely detecting its level
- ✓ Integrated steel firewall with a counterbalance to prevent backfiring
- ✓ Low power consumption
- ✓ Fully compatible with the instrumentation of oil and gas boiler and food oven

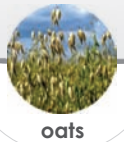
Dimensions





Fuel


pellets


oats


dry pits

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Pellas®X 100

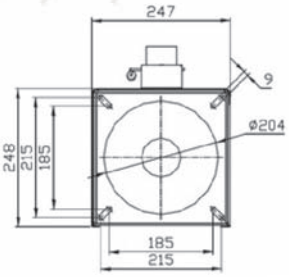
Technical specification

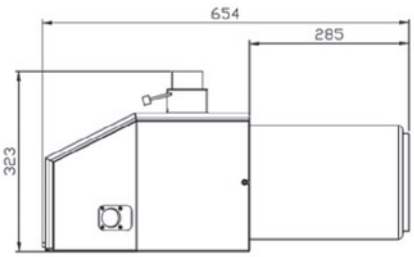
TYPE	Pellas®X 100
Output [kW]	30 - 100
Power supply	230 V AC / 50Hz
Average power consumption [W]	75
Weight [kg]	25
Feeder length [m]	2
Fuels	pellets 6 - 8 mm
	oats
	dry pits
Combustion efficiency [%]	up to 99
Efficiency in the furnace [%]	up to 96
Output adjustment	YES
Lambda probe	YES (option)
Central heating pump handling	YES
Hot water pump handling	YES
Room temperature sensor	YES (option)
All-weather automatic control	YES (option)
Solar panels handling	YES (option)

Device properties

- ✓ Patented technology of high pressure combustion – no risk of backfire
- ✓ Patented system of fuel mixing in the furnace chamber significantly prolongs the duration of maintenance-free operation
- ✓ Made of the best materials, using latest technologies
- ✓ Automatic operation: firing, cleaning, flame control
- ✓ Stepless (electronic) power adjustment
- ✓ Low CO and CO_2 emission
- ✓ Low thermal inertia
- ✓ Burner's temperature control
- ✓ Possibility to install a particulate filter!
- ✓ Automatic start after voltage loss – memory of last settings
- ✓ High combustion efficiency - up to 96%!
- ✓ The furnace made of superior heat resisting steel
- ✓ Possibility to control the incineration process using a broadband lambda sensor (option)
- ✓ Flame detector, precisely detecting flame intensityl
- ✓ Low power consumptionFully compatible with the instrumentation of oil and gas boiler and bakery oven

Dimensions





Fuel


pellets


oats


dry pits

pellasX

Pellas®X 150

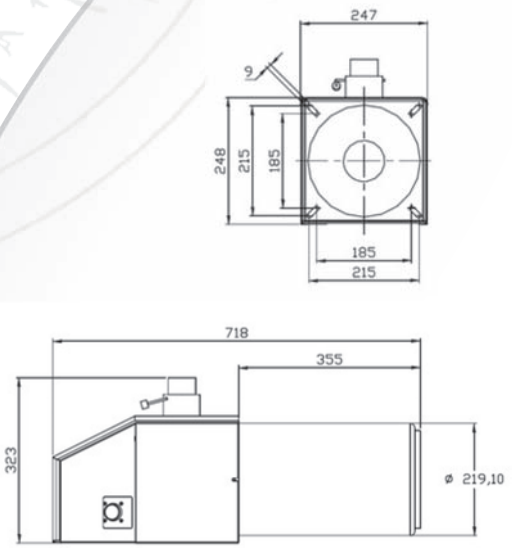
Technical specification

TYPE	Pellas®X 150
Output [kW]	50 - 150
Power supply	230 V AC / 50Hz
Average power consumption [W]	75
Weight [kg]	25
Feeder length [m]	2
Fuels	pellets 6 - 8 mm
	oats
	dry pits
Combustion efficiency [%]	up to 99
Efficiency in the furnace [%]	up to 96
Output adjustment	YES
Lambda probe	YES (option)
Central heating pump handling	YES
Hot water pump handling	YES
Room temperature sensor	YES (option)
All-weather automatic control	YES (option)
Solar panels handling	YES (option)

Device properties

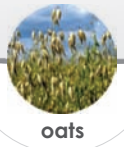
- ✓ Patented technology of high-pressure combustion
- ✓ Patented system of fuel mixing in the furnace chamber – significantly prolongs the duration of maintenance-free operation
- ✓ Made of superior materials based on latest technology
- ✓ Automatic operation: firing, cleaning, flame control
- ✓ Made of over 80% of stainless steel with a housing of acid - resistant steel
- ✓ High-quality connection – ensures reliable communication between the burner and the controller
- ✓ Stepless (electronic) power adjustment
- ✓ Low CO and CO_2 emission
- ✓ Low thermal inertia
- ✓ Burner's temperature control
- ✓ Possibility to install a particulate filter!
- ✓ Automatic start after voltage loss – memory of last settings
- ✓ High combustion efficiency - up to 99%!
- ✓ The furnace made of superior heat resisting steel
- ✓ Possibility to control the incineration process using a broadband lambda sensor (option)
- ✓ Flame detector precisely detecting its level
- ✓ Integrated steel firewall with a counterbalance to prevent backfiring
- ✓ Low power consumption
- ✓ Fully compatible with the instrumentation of oil and gas boiler and food oven

Dimensions



Fuel


pellets


oats


dry pits

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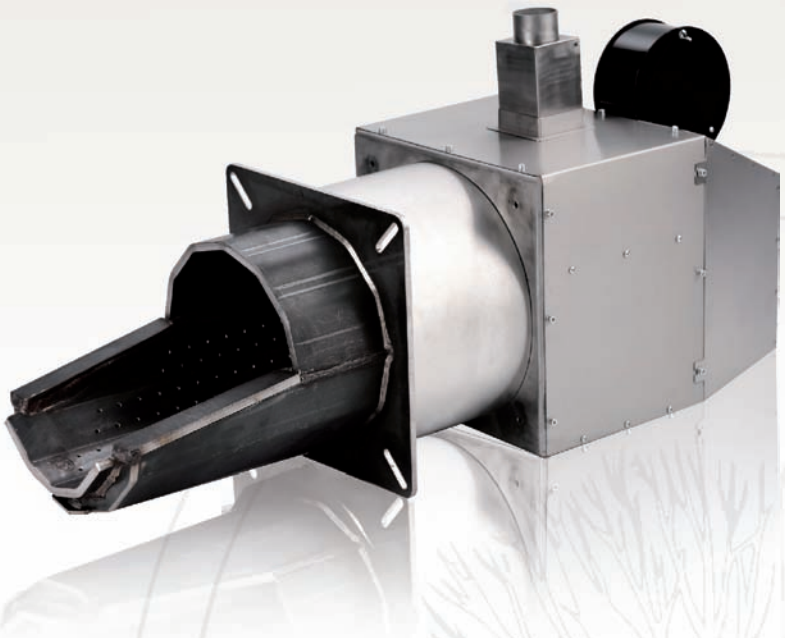
Pellas®X 260



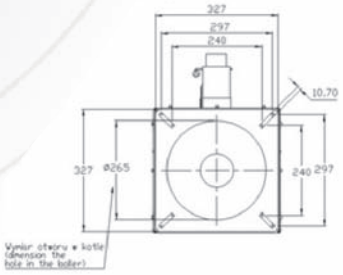
Technical specification

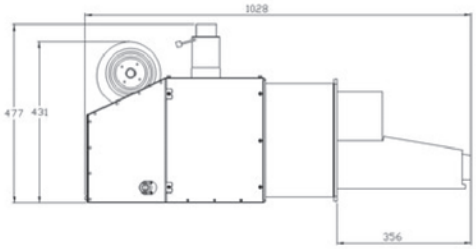
TYPE	Pellas®X 260
Output [kW]	80 - 260
Power supply	230 V AC / 50Hz
Average power consumption [W]	120
Weight [kg]	32
Feeder length [m]	3
Fuels	pellets 6 - 8 mm
	oats
	dry pits
Combustion efficiency [%]	up to 99
Efficiency in the furnace [%]	up to 96
Output adjustment	YES
Lambda probe	YES
Central heating pump handling	YES
Hot water pump handling	YES
Room temperature sensor	YES (option)
All-weather automatic control	YES (option)
Solar panels handling	YES (option)

Device properties

- ✓ Patented technology of high pressure combustion – no risk of backfire
- ✓ Patented system of fuel mixing in the furnace chamber significantly prolongs the duration of maintenance-free operation
- ✓ Valve with counterweight installed as prevention against backfire
- ✓ Made of the best materials, using latest technologies
- ✓ Automatic operation: firing, cleaning, flame controll
- ✓ Stepless (electronic) power adjustment
- ✓ Low CO and CO_2 emission
- ✓ Low thermal inertia
- ✓ Burner's temperature control
- ✓ Possibility to install a particulate filter!
- ✓ Automatic start after voltage loss – memory of last settings
- ✓ High combustion efficiency - up to 96%!
- ✓ The furnace made of superior heat resisting steel
- ✓ Possibility to control the incineration process using a broadband lambda sensor (option)
- ✓ Flame detector, precisely detecting flame intensity
- ✓ Low power consumption
- ✓ Fully compatible with the instrumentation of oil and gas boiler and bakery oven

Dimensions





Fuel


pellets


oats


dry pits

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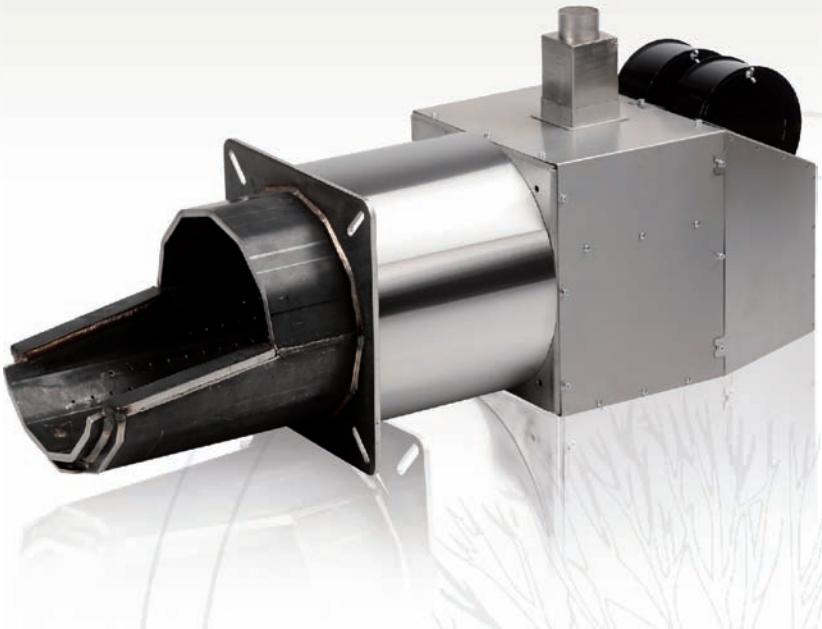
Pellas®X 350



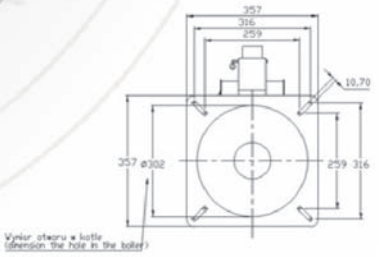
Technical specification

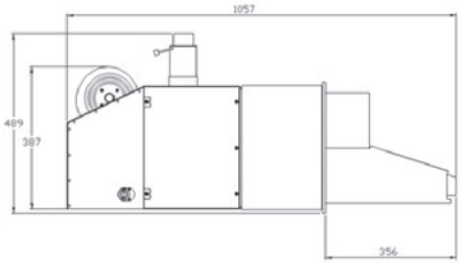
TYPE	Pellas®X 350
Output [kW]	100 - 350
Power supply	230 V AC / 50Hz
Average power consumption [W]	150
Weight [kg]	39
Feeder length [m]	3
Fuels	pellets 6 - 8 mm
	oats
	dry pits
Combustion efficiency [%]	up to 99
Efficiency in the furnace [%]	up to 96
Output adjustment	YES
Lambda probe	YES
Central heating pump handling	YES
Hot water pump handling	YES
Room temperature sensor	YES
All-weather automatic control	YES
Solar panels handling	YES (option)

Device properties

- ✓ Patented technology of high-pressure combustion
- ✓ Patented system of fuel mixing in the furnace chamber – significantly prolongs the duration of maintenance-free operation
- ✓ Made of superior materials based on latest technology
- ✓ Automatic operation: firing, cleaning, flame control
- ✓ Made of over 80% of stainless steel with a housing of acid-resistant steel
- ✓ High-quality connection – ensures reliable communication between the burner and the controller
- ✓ Stepless (electronic) power adjustment
- ✓ Low CO and CO_2 emission
- ✓ Low thermal inertia
- ✓ Burner's temperature control
- ✓ Possibility to install a particulate filter!
- ✓ Automatic start after voltage loss – memory of last settings
- ✓ High combustion efficiency - up to 99%!
- ✓ The furnace made of superior heat resisting steel
- ✓ Control of the combustion process using a broadband lambda sensor!
- ✓ Flame detector precisely detecting its level
- ✓ Integrated steel firewall with a counterbalance to prevent backfiring
- ✓ Low power consumption
- ✓ Fully compatible with the instrumentation of oil and gas boiler and food oven

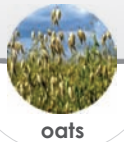
Dimensions





Fuel

pellets



oats

dry pits

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The first burner produced by the company was Pellas®X Mini with power output between 5 and 26 kW. To meet customers' needs and requirements for big power burners, we added burners up to 350 kW to our offer.

In such way, our products can be used in households, bakeries, public utility and institutional buildings, schools and even in production or warehouse halls.

Properties of Pellas®X Burners

- ✓ **BURNER WITH POWER OUTPUT OF 10 TO 350 kW**
- ✓ **3 YEAR WARRANTY**
- ✓ **NEW GENERATION:**

SAFETY

- ✓ Patented technology of high pressure combustion – no risk of backfire
- ✓ Burner's temperature control
- ✓ Possibility of installing a pollen filter
- ✓ Valve with counterweight installed as prevention against backfire

RELIABILITY

- ✓ Patented system of fuel mixing in the furnace chamber significantly prolongs the duration of maintenance-free operation
- ✓ Automatic start after voltage loss – memory of last settings
- ✓ The furnace made of superior heat resisting steel
- ✓ Made of the best materials, using latest technologies

MODERN CONTROLLING SYSTEM

- ✓ Automatic operation: firing, cleaning, flame control
- ✓ Stepless (electronic) power adjustment
- ✓ Possibility to control the incineration process using a broadband lambda sensor (option)
- ✓ Low CO and CO_2 emission High combustion efficiency – up to 99 %
- ✓ Low power consumption
- ✓ Low thermal inertia
- ✓ Fully compatible with the instrumentation of oil and gas boiler and bakery oven
- ✓ Flame detector, precisely detecting flame intensity
- ✓ BURNERS ARE SOLD IN SETS, TOGETHER WITH CONTROLLER AND FEEDER

Fuel for burners Pellas®X

The basic fuel is wooden pellet, with 6-8 mm granulation, it is a byproduct of wood industry. Granulated remnants of sawdust or woodyard shavings etc. are processed into high caloric fuel. Burning takes place without emission of harmul gases and leaves very small amount of ash (99% burning).

Alternative fuels

- ✓ grain cereals
- ✓ stone fruit

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Pellas®X controllers

Pellas®X R.ControlTOUCH

RSX.Bio Control

Pellas®X.Control

Pellas®X R.Control

Pellas®X R.ControlTOUCH

- ✓ **Touch screen graphic display**
- ✓ **Two types of menu**
- ✓ **Info key**
- ✓ **The modular design of the controller** – possible expansion of the controlling system by connecting 3 pumps and through expansion modules additionally 4 heating circuits with mixer's servomotors.
- ✓ **Controlling all available circuits**
- ✓ **Stepless control of burner fan operation**
- ✓ **Remote controller handling** – of a controller from any room where a thermostat ecoSTER TOUCH with a graphic display is installed.
- ✓ **Fumes temperature control**
- ✓ **Constant reading of flame brightness –** control over burner operation
- ✓ **Possibility of connecting broadband lambda sond**
- ✓ **Information about amount of fuel in a silo**
- ✓ **Sound signaling**
- ✓ **Alarms and errors history**
- ✓ **Clock with an integrated calendar**
- ✓ **Statistics –** the controller stores in its memory statistical data about system operation
- ✓ **Restoration of factory presets**
- ✓ **Compatible with oil and gas boilers automatics**
- ✓ **Possibility of connecting an exhaust fan**

RSX.Bio Control

- ✓ **LCD displayer**
- ✓ **Much simplified menu**
- ✓ **Recommended for bakeries**
- ✓ **Constant inspection over flame brightness**
- ✓ **Sound signaling –** integrated speaker signalizes alarm situations in the boiler and thus enhances safe operation of the unit
- ✓ **Compatible with oil and gas boilers automatics**

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Pellas®X.Control

- ✓ **Graphic display**
- ✓ **Large fonts and icons**
- ✓ **Two types of menu–** simple and advanced menu
- ✓ **Info key**
- ✓ **Modular design of the CAN controller** the control system may be extended (maximum extension available: 16 circuits, 4 hot tap water preparation circuits, 4 power buffers)
- ✓ **Efficient, advanced 32-bit ARM procesor**
- ✓ **Alarms and errors history**
- ✓ **Clock with an integrated calendar**
- ✓ **Statistics**
- ✓ **Sound signaling**
- ✓ **Restoration of factory presets**
- ✓ **Compatible with oil and gas boilers automatics**

Pellas®X R.Control

- ✓ **Graphic display**
- ✓ **Two types of menu**
- ✓ **Info key**
- ✓ **The modular design of the controller –** possible expansion of the controlling system by connecting 3 pumps and through expansion modules additionally 4 heating circuits with mixer's servomotors.
- ✓ **Controlling all available circuits**
- ✓ **Stepless control of burner fan operation**
- ✓ **Remote controller handling** – of a controller from any room where a thermostat ecoSTER TOUCH with a graphic display is installed.
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- ✓ **Information about amount of fuel in a silo**
- ✓ **Sound signaling**
- ✓ **Alarms and errors history**
- ✓ **Clock with an integrated calendar**
- ✓ **Statistics –** the controller stores in its memory statistical data about system operation
- ✓ **Restoration of factory presets**
- ✓ **Compatible with oil and gas boilers automatics**
- ✓ **Possibility of connecting an exhaust fan**

pellas®X

Fuel hoppers Pellas®X

Fuel hoppers **Pellas®X** are made of galvanized steel, with a regulated, movable outlet, allowing for feeder angle adjustment. They are designed to store pellet, oat and stone. The fuel hopper has upper lid and two bolts allowing for cleaning the outlet of hopper from sawdust. High durability of the material, resistance to weight, tightness of construction, big slip in a funnel drain and easiness to maintain cleanness, are the advantages of fuel hoppers made of steel. It is particularly important for pellet stored in damp rooms. Steel construction protects against sparks, it means that such a hopper can be placed near boiler.

In our offer we have hoppers in three dimensions:

Fuel hopper Pellas®X 300l

(65x65x125)

Fuel hopper Pellas®X 600l

(75x75x140)

Fuel hopper Pellas®X 1200l

(120x120x145)

Our silos are adjusted to easy and quick assembly and disassembly and are adapted to feeder of **Pellas®X burner.** Fuel hopper with 300l capacity in heating period by average fuel consumption should be enough for burner operation for 7 days*.

The fuel hopper is foldable and easy to transport, when disassembled it can be carried in a small boot of a car. There is a user's manual attached to the silo, which helps in easy and self-made assembly of the silo. Silos are also very narrow and can be carried into a storage-room or a boiler-room through standard door. The charge on top and feeder at the bottom allow for gradual enlargement of the silo according to needs.

An extension of 150l (65x65x55) for the 300l fuel hopper is also available. It allows for enlargement of the silo to 450l.

*data for mid-size household

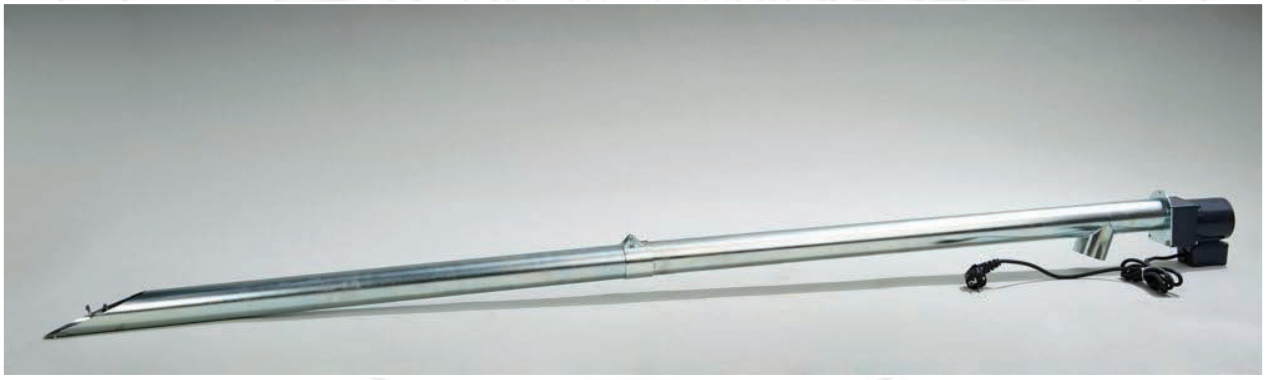
Golden Panel
energías renovables

Galvanised feeder Pellas®X

Feeder is an integrated part of a burner. It is designed for transporting pellet type materials, granulated between 6-8 mm, like oat or stone. An auger which lifts pellet from fuel hopper goes through whole length of the feeder. Then it applies pellet to **Pellas®X** burner according to preset values on the controller in periodical time intervals. Thanks to such design of the feeder, possibilities of boiler and fuel hopper arrangement largely increase. It solves a problem of modernized boiler-rooms, where it is often necessary to adapt boilers.

Properties

- ✓ High efficiency
- ✓ Made of galvanized steel – higly resistant to corrosion
- ✓ Energy efficient – just 25W of consumed power
- ✓ Working angle from 0o to 60o
- ✓ Standard length 2 or 3 meters, depending on burner, can be extended on order, up to 10 meters to allow for adaptation to dimensions of boiler-room or fuel



Burners housing notified to the Patent Office.
They have industrial design registration certificates.
Protection certificates for a trademark and obtained the right to utility model protection.
Products complies with EU directives, holding a CE safety mark.

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